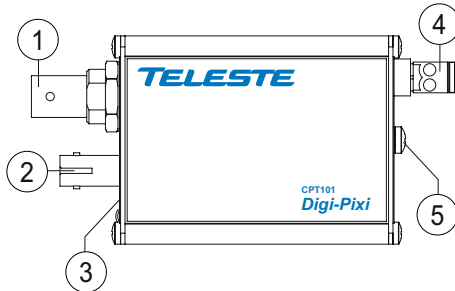


CPT101 mini sized stand-alone video transmitter



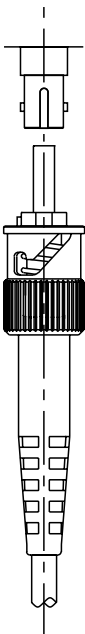
side view



CPT101 Optical Transmitter

- 1) Video input (BNC female)
- 2) Optical output (ST)
- 3) Power led
- 4) Power supply connector (2-pin screw terminal)
- 5) Grounding

top view



ST Connectors.

Make sure the key is aligned in the slot properly before tightening!



CAUTION:

THESE OPTICAL UNITS USES CLASS 1M LASER DIODE.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL
INSTRUMENTS. APPLICABLE STANDARD
IEC60825-1: 2001

Welcome, and thank you for purchasing Teleste's CFO products.

General

The **CPT101** is stand-alone one channel optical transmitter for uni-directional video transmission in a multimode fibre. CPT101 is temperature hardened and is capable of using both 12 VDC or 24 VAC supply voltage. **CPT101 unit is a compact size housing for special stand-alone installations requiring minimal installation space. Also as an optional DIN rail mounting is possible (item code CIK001).** The current consumption is max. 130 mA (+12V DC).

Video input

The video input impedance (BNC female) is 75 Ω . The nominal input level is 1 Vpp.

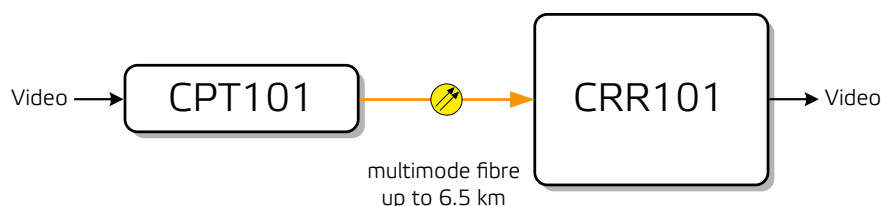
Fibre connection

The optical connector is of the type **ST**. The optical output level is typically -4 dBm. For testing purposes the CFO100 series transmitter and receiver can be connected with a short fibre patch cable. The operating wavelength is 1310 nm.

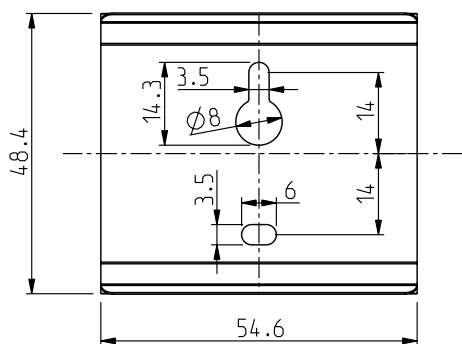
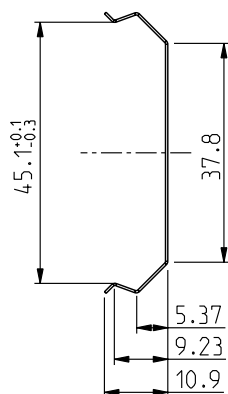
When installing the fibre optic cable, do not exceed the minimum bending radius when connecting cable to the system.

Note! For correct optical operation ensure that all optical connectors are cleaned immediately before mating. Connectors should always be cleaned using high purity alcohol (e.g. methyl or isopropyl alcohol). Dry the surfaces using clean compressed air or other equivalent pressurised gas. The female **ST** optical connectors on the equipment should always be protected with dustcaps when there is no fibre inserted.

Block diagram



CPT101 mini sized stand-alone video transmitter



Wall bracket dimensions.

Note! New generation CFO100 products are based on digital transmission and are not therefore compatible with previous analog CFO100 series.

Stand-alone installation

The **CPT101** unit is designed for stand-alone installation. The unit should be mounted with a help of wall bracket to a installation place.

CPT101 can be either DC or AC voltage operated. The permitted supply voltage ranges are 10.5...14 VDC and 16...24 VAC that can be provided by the camera unit itself or an external mains adapter with regulated output. A recommended external unit is Teleste **CPS251** or equivalent (see latest list of available products). The permitted operational temperature range is -34...+74°C.

Technical specifications

Optical

Wavelength	1310 nm	multimode fibre
Output power	-4 dBm	max
Input sensitivity	-25 dBm	max
Bit rate	200 Mbps	
Link distance	6.5 km	max
Optical connector	ST	

Video

Number of channels	1 uni-directional	
Standard	PAL/NTSC	CVBS
Input level	1 Vpp	
Input overload level	1.75 Vpp	
Impedance	75 ohm	
Sampling resolution	10 bit	
Sampling rate	20.0 MHz	
Bandwidth	8 MHz	-1 dB
Insertion gain	+/-1 dB	
C/L gain inequality	4 %	
C/L delay inequality	40 ns	
Differential gain	2 %	
Differential phase	1°	
SNR	65 dB	weighted
Video connector	BNC female	

General

Supply voltage	10.5...14 VDC 16...24 VAC	regulated
Current consumption (max)	130 mA	
Power supply connector	2-pin screw terminal	
<u>Dimensions (H x W x D)</u>		
CPT101	25 • 48 • 62 mm	without connectors
Weight	0.2 kg	
<u>Alarms / indicator LEDs</u>		
Power	LED	
Operating temperature	-34...+74 °C	
Storage temperature	-34...+74 °C	recommended
Humidity	0...95 %	non condensing
EMC compatibility	EN61000-6-3, EN50130-4, CE	

Notes

Typical values unless otherwise stated

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